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|----|----|---|----|---|-----|----|---|
|    |    |   |    |   |     |    |   |

Application/Control No.

Applicant(s)/Patent under Reexamination

10/790,123 Examiner

TANAKA ET AL. Art Unit

Tresa V. Vidayathil

3746

|   | √ | Rejected |
|---|---|----------|
| į | = | Allowed  |

| _ | (Through numeral)<br>Cancelled |
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|     | Teuibio 1 2 3 4 5 6 7 8 9 10 11 12 13 14                          | <u> </u>                                |          |          |          | Date                                |          |   |          |              |    | Final | 9 Original |                     |           |   |          | Date     |              |  |          |               |
|-----|---|---|----------|----------|----------|-------------------------------------|----------|---|----------|--------------|----|-------|------------|---------------------|-----------|---|----------|----------|--------------|--|----------|---------------|
|     | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13 | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \   |          |          |          |                                     |          |   |          |              |    | Final | 51         |                     |           |   |          |          |              |  |          |               |
|     | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13      | V V V V V V V V V V V V V V V V V V V   |          |          |          |                                     |          |   |          |              |    |       | 51         |                     |           |   |          |          |              |  |          | $\overline{}$ |
|     | 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12                 | 7 |          |          |          |                                     |          |   |          |              |    |       |            | $oldsymbol{\sqcup}$ |           |   |          |          |              | l  |          | $\bot$        |
|     | 4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13                | 7 7 7 7 7 7 7 7                         |          |          |          |                                     |          |   |          |              |    |       | 52         |                     |           |   |          |          |              |  |          |               |
|     | 5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13                     | V V V V V V V V V V V V V V V V V V V   |          |          |          |                                     |          |   |          |              |    |       | 53         |                     |           |   |          |          |              |  |          |               |
|     | 6<br>7<br>8<br>9<br>10<br>11<br>12                                | 1 1 1 1 1 1                             |          |          |          |                                     |          |   |          |              |    |       | 54         |                     |           |   |          |          |              |  |          | L             |
|     | 7<br>8<br>9<br>10<br>11<br>12<br>13                               | 1 1 1 1 1                               |          |          |          |                                     |          |   |          | L            |    |       | 55         | Ш                   |           |   |          |          |              |  | <u></u>  | L             |
|     | 8<br>9<br>10<br>11<br>12<br>13                                    | 7777                                    |          | _        |          |                                     |          |   |          |              |    |       | 56         |                     |           |   |          | L        |              |  |          | L             |
|     | 9<br>10<br>11<br>12<br>13   | 7 7                                     |          |          |          | _                                   |          |   |          |              |    |       | 57         |                     |           |   |          | _        |              | <u> </u>   | _        | L             |
|     | 10<br>11<br>12<br>13  | 1                                       |          |          |          |                                     | $\vdash$ | _ |          | L            |    |       | 58         |                     |           |   |          | ļ        |              | _  | _        | L             |
|     | 11<br>12<br>13  | 1                                       | -        | _        |          |                                     |          | _ | _        | _            |    |       | 59         |                     |           |   |          |          | _            | <u> </u>   | ļ        | <u> </u>      |
|     | 12<br>13  |   |          |          | _        |                                     |          |   |          |              |    |       | 60         | $\vdash$            | -         |   | _        | <u> </u> | _            | <u> </u>   | <u> </u> | ⊢             |
|     | 13  | γį                                      |          | -        |          | _                                   |          | _ | _        | <u> </u>     |    |       | 61         | $\vdash$            | -         |   |          | $\vdash$ | _            | <u> </u>   | <u> </u> | ┝             |
|     |   | _                                       | $\dashv$ | $\dashv$ | $\vdash$ | _                                   | $\vdash$ | _ | _        |              |    |       | 62<br>63   | $\vdash$            | -         |   | H        | ├─       | _            | ⊢  | -        | ⊢             |
|     | 14 (  |   | -        |          |          |                                     |          |   |          | <u> </u>     |    |       | 64         | Н                   | -         |   |          | -        |              |  |          | ⊢             |
| 1 1 | 15  | $\dashv$                                | $\dashv$ | $\dashv$ | -        |                                     | _        |   |          | -            |    |       | 65         | -                   |           |   | H        | -        |              |  | -        | ├             |
|     | 16  | $\dashv$                                | $\dashv$ | $\dashv$ | -        | ├                                   |          |   | -        | -            |    |       | 66         | ┝╌┤                 |           | _ |          | -        |              | ├  | -        | ⊢             |
|     | 17  | -                                       | -        |          |          |                                     | _        | _ | $\vdash$ | ┝            |    |       | 67         | H                   |           | _ | _        | $\vdash$ | _            | ┢  | $\vdash$ | ⊢             |
|     | 18  | ᆉ                                       | -        |          | -        |                                     | -        | _ | _        | -            |    |       | 68         |                     | -         | - | _        |          |              | ┢┈   | -        | ┢             |
|     | 19  | $\dashv$                                | $\dashv$ | $\dashv$ | -        | $\vdash$                            |          | _ | -        | -            |    |       | 69         | Н                   | $\dashv$  |   |          | -        | _            | -  |          | ┢             |
|     | 20  | $\dashv$                                | 1        | $\dashv$ |          |                                     | -        |   |          |              |    |       | 70         | H                   | _         |   | $\vdash$ | $\vdash$ | _            | $\vdash$   | _        | ┢             |
| -   | 21  | $\dashv$                                | $\dashv$ | -        | -        |                                     |          |   |          |              |    |       | 71         | Н                   | $\exists$ |   | -        | -        | _            | ┪  |          | H             |
|     | 22  | -                                       | $\neg$   |          |          | $\vdash$                            |          |   |          | -            |    |       | 72         | H                   |           |   |          |          | _            | <u> </u>   |          | H             |
|     | 23  | $\dashv$                                | $\neg$   |          |          |                                     |          |   |          | $\vdash$     | i  |       | 73         | П                   |           | _ | -        | $\vdash$ |              | $\vdash$   | $\vdash$ | ┢             |
|     | 24  |   |          |          |          | $\vdash$                            |          |   |          |              |    |       | 74         | П                   |           | _ |          | Т        | $\vdash$     | $\vdash$   |          | ┢             |
|     | 25  | 一                                       | ╗        |          |          |                                     |          |   |          |              |    |       | 75         | П                   |           |   |          |          |              | Г  |          | Т             |
|     | 26  |   | $\neg$   |          |          |                                     |          |   |          | Г            |    |       | 76         |                     |           |   |          |          |              |  |          | Г             |
|     | 27  |   |          |          |          |                                     |          |   |          |              |    |       | 77         |                     |           |   |          |          |              |  |          | Γ             |
|     | 28  |   |          |          |          |                                     |          |   |          |              |    |       | 78         |                     |           |   |          |          |              |  |          |               |
|     | 29  |   |          |          |          |                                     |          |   |          |              |    |       | 79         |                     |           |   |          |          |              |  |          |               |
|     | 30  |   |          |          |          |                                     |          |   |          |              |    |       | 80         |                     |           |   |          |          |              |  |          |               |
|     | 31  | $\Box$                                  | _        |          |          |                                     |          |   |          | _            |    |       | 81         | Ш                   |           |   |          |          |              |  | _        | L             |
|     | 32  |   |          |          |          |                                     |          |   |          |              |    |       | 82         |                     |           |   |          |          |              |  |          | L             |
|     | 33  | _                                       | _        |          |          |                                     |          |   |          | _            |    |       | 83         | Ш                   |           |   |          |          |              |  |          | L             |
|     | 34  | _                                       | _        | _        |          | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ |          |   | _        |              |    |       | 84         |                     | _         |   |          | <u> </u> |              | ļ  | <u> </u> | Ŀ             |
|     | 35  | 4                                       | -        |          |          | $\vdash$                            |          |   | _        | ļ            |    |       | 85         | $\vdash$            | _         | _ | _        | $\vdash$ | _            | _  | <u> </u> | -             |
|     | 36  | $\dashv$                                | $\dashv$ | $\dashv$ |          | H                                   | _        |   | _        |              |    |       | 86         | $\vdash$            | -         | _ | _        | <u> </u> | _            | <u> </u>   | <u> </u> | -             |
|     | 37  |   | -        |          |          | H                                   |          |   | _        | <u> </u>     |    |       | 87<br>88   | $\vdash$            | -         |   |          | _        |              | <u> </u>   | -        | ┞             |
|     | 38  | -                                       |          |          |          | -                                   |          | _ | _        | $\vdash$     |    |       | 89         | $\vdash$            | _         | _ | _        | ⊢        |              |  | $\vdash$ | ┞             |
|     | 39  |   | $\dashv$ | $\dashv$ |          | <del> </del>                        |          | _ | H        | <u> </u>     |    |       |            | ┝┈┤                 | -         |   |          |          |              |  | ├        | ╀╌            |
|     | 40<br>41  | -                                       | -        | -        |          |                                     | _        |   | $\vdash$ | ⊢            |    |       | 90<br>91   | $\vdash$            | -         |   | _        | $\vdash$ | ┝            | -  | -        | ┝             |
|     | 42  | $\dashv$                                | -        | $\dashv$ |          |                                     |          | - | _        | -            |    |       | 92         | $\vdash$            |           |   |          |          |              |  | ├        | ┝             |
|     | 43  | $\dashv$                                | $\dashv$ | $\dashv$ | $\vdash$ | ┝                                   | -        | - | -        | -            |    |       | 93         | $\vdash$            | -         | _ | $\vdash$ | $\vdash$ | -            | ┢  | $\vdash$ | $\vdash$      |
|     | 44  | $\dashv$                                | $\dashv$ | $\dashv$ | Н        | ├─                                  | $\vdash$ | Н | $\vdash$ | -            |    |       | 94         | $\vdash$            | -         | - | -        | $\vdash$ | -            | ┢  | $\vdash$ | $\vdash$      |
|     | 45  | $\dashv$                                | $\dashv$ | $\dashv$ |          | $\vdash$                            | -        | - | $\vdash$ | <del> </del> | ]. |       | 95         | $\vdash$            | -         |   | Н        | $\vdash$ | <del> </del> | ┢  | $\vdash$ | $\vdash$      |
|     | 46  |   | $\dashv$ | $\dashv$ |          | Г                                   | Н        |   | Н        |              |    | -     | 96         | $\vdash$            | $\dashv$  |   | _        |          | _            | <del>                                     </del> | $\vdash$ | $\vdash$      |
|     | 47  | 寸                                       | $\dashv$ | $\neg$   |          | <u> </u>                            |          |   | Г        |              |    |       | 97         |                     |           |   |          |          |              | <u> </u>   | Ι_       | Τ             |
|     | 48  | $\neg$                                  |          | $\neg$   |          |                                     |          |   |          |              |    |       | 98         | $\Box$              |           |   |          | Г        | _            | Г  | Ι_       | Π             |
|     | 49  |   | 一        |          |          |                                     |          |   |          |              |    |       | 99         |                     |           |   |          |          |              |  |          |               |
|     | 50  |   |          |          |          |                                     |          |   |          |              |    |       | 100        |                     |           |   |          |          |              |  |          |               |

| Cla      | aim            | Date     |          |              |               |          |              |          |          |              |  |  |
|----------|----------------|----------|----------|--------------|---------------|----------|--------------|----------|----------|--------------|--|--|
|          |                |          |          |              |               |          |              |          |          |              |  |  |
| Final    | Original       |          |          |              |               |          |              |          |          |              |  |  |
|          |                | _        |          |              |               |          |              | -        |          |              |  |  |
|          | 51<br>52<br>53 |          |          | -            |               | _        | -            |          | _        |              |  |  |
| <u> </u> | 52             |          |          |              | Ш             | _        | _            |          |          |              |  |  |
|          | 53             |          |          |              |               |          |              |          |          |              |  |  |
| L        | 54             |          |          |              |               |          |              |          |          |              |  |  |
|          | 54<br>55       |          |          |              |               |          |              |          |          |              |  |  |
|          | 56             |          |          |              |               |          |              |          |          |              |  |  |
|          | 57             |          |          |              |               |          |              |          |          |              |  |  |
|          | 58             |          |          |              |               |          |              |          |          |              |  |  |
|          | 59             |          |          |              |               |          |              |          |          |              |  |  |
| <b> </b> | 60             | _        |          | -            |               |          |              |          | -        | -            |  |  |
| _        | 61             | $\vdash$ | _        | _            | $\vdash$      | _        | _            |          | _        | _            |  |  |
|          | 62             | _        | -        | _            | Н             | -        | -            |          | -        | _            |  |  |
|          | 63             | -        | H        |              | H             | Н        | $\vdash$     | $\vdash$ | $\vdash$ | $\vdash$     |  |  |
| <b> </b> | 64             | $\vdash$ | $\vdash$ |              | H             |          | -            |          | H        | <u> </u>     |  |  |
| <b> </b> | 65             |          |          |              | H             |          |              | -        | -        | <u> </u>     |  |  |
|          | 65             |          |          |              |               |          |              | -        |          |              |  |  |
| <u> </u> | 66<br>67       | _        | _        | _            | _             | _        | _            |          | _        | _            |  |  |
|          | 6/             | _        | _        | _            | _             |          | _            | H        | _        | _            |  |  |
|          | 68             |          |          |              |               | _        |              | _        |          | _            |  |  |
|          | 69             |          |          |              |               | _        | _            |          |          |              |  |  |
|          | 70             |          |          |              | _             |          |              |          |          |              |  |  |
|          | 71             |          |          |              |               |          |              |          |          |              |  |  |
|          | 72             |          |          |              |               |          |              |          |          |              |  |  |
|          | 71<br>72<br>73 |          |          |              |               |          |              |          |          |              |  |  |
|          | 74<br>75       |          |          |              |               |          |              |          |          |              |  |  |
|          | 75             |          |          |              |               |          |              |          |          |              |  |  |
|          | 76             |          |          |              |               |          |              |          |          |              |  |  |
|          | 77             |          |          |              |               |          |              |          |          |              |  |  |
|          | 78             |          |          |              |               |          |              |          |          |              |  |  |
| <u> </u> | 79             |          |          |              |               | _        |              |          |          | Т            |  |  |
|          | 80             |          |          |              |               |          |              |          |          | $\vdash$     |  |  |
|          | 81             |          |          | _            | -             | _        | _            |          |          | $\vdash$     |  |  |
|          | 82             | $\vdash$ |          | $\vdash$     | М             |          | М            | Н        | П        | $\vdash$     |  |  |
|          | 83             | -        |          |              |               |          |              |          | -        | -            |  |  |
| <b> </b> | 84             | $\vdash$ | H        | $\vdash$     | $\vdash$      | $\vdash$ | $\vdash$     | Н        |          | <del> </del> |  |  |
|          | 85             | -        | -        | -            | -             | $\vdash$ | -            |          |          | -            |  |  |
|          | 86             | H        |          | <del> </del> | $\vdash$      | $\vdash$ | $\vdash$     | -        | -        | $\vdash$     |  |  |
|          | 87             |          | -        | _            | $\vdash$      | $\vdash$ | $\vdash$     | Н        | $\vdash$ | $\vdash$     |  |  |
|          | 88             | $\vdash$ |          | $\vdash$     |               | _        | -            | -        | $\vdash$ | ┝            |  |  |
| $\vdash$ | 89             | H        |          | <u> </u>     | $\vdash$      | —        | Н            | H        | $\vdash$ | $\vdash$     |  |  |
| -        | 90             | ļ        | $\vdash$ | -            |               |          | <del> </del> | <b>—</b> | -        |              |  |  |
| <u> </u> | 91             | <u> </u> | H        | <u> </u>     | $\vdash$      | ш        | $\vdash$     | $\vdash$ | -        | -            |  |  |
| -        |                | <u> </u> | $\vdash$ |              |               | -        |              |          | <u> </u> | -            |  |  |
| -        | 92             | <u> </u> | -        | -            | -             | $\vdash$ | <u> </u>     | -        | $\vdash$ | ⊢            |  |  |
|          | 93             | <u> </u> | <u> </u> | <u> </u>     | Ь             | <b> </b> | Ш            | L        | <u> </u> | <u> </u>     |  |  |
| <u> </u> | 94             | <u> </u> |          | <u> </u>     | $\vdash$      | Щ        | Щ,           | Ш        | $\vdash$ | <u> </u>     |  |  |
| L        | 95             | ļ        | Ш        | <u> </u>     | <b> </b>      | <u> </u> | L.           | Ь        | _        | <u> </u>     |  |  |
| <u> </u> | 96             | L        | L        |              | <u> </u>      | <u> </u> | L            | L        | <u> </u> | <u> </u>     |  |  |
| <u> </u> | 97             | <u> </u> |          |              | _             | اسا      | <u> </u>     | Ш        | <u> </u> | <u> </u>     |  |  |
|          | 98             | <u> </u> | Ш        | _            | $\sqsubseteq$ | Щ.       | Ь.           | Ш        | <u> </u> | <u> </u>     |  |  |
| -        | 99             | <u> </u> | L_       | <u> </u>     |               | L        | Щ            | Ш        | L_       |              |  |  |
|          | 100            | I        |          |              |               | 1        |              | 1        | i        | ı            |  |  |

| Cli       | aim  | Date     |          |          |           |          |          |          |              |                |  |  |
|-----------|--|----------|----------|----------|-----------|----------|----------|----------|--------------|----------------|--|--|
|           |  |          |          |          |           |          |          |          |              |                |  |  |
| Final     | Original   |          |          |          |           |          |          |          |              |                |  |  |
|           | 101<br>102<br>103  |          |          |          |           |          |          |          |              |                |  |  |
|           | 102  |          |          |          |           |          |          |          |              |                |  |  |
|           | 103  |          |          |          |           |          |          |          |              |                |  |  |
|           | 104  |          |          |          |           |          |          |          |              |                |  |  |
|           | 104<br>105   |          |          |          |           |          | L        |          |              | Щ              |  |  |
|           | 106  |          |          |          |           |          |          |          |              |                |  |  |
| <u> </u>  | 107  |          |          |          |           |          |          |          |              |                |  |  |
|           | 108  |          |          |          |           | _        |          | <u> </u> | _            | $\vdash$       |  |  |
| ļ         | 109  | -        |          |          | _         | _        | _        | _        | _            | $\vdash$       |  |  |
| <u> </u>  | 110<br>111<br>112  | _        |          | _        | $\vdash$  | _        | _        | H        | $\vdash$     | _              |  |  |
| <u> </u>  | 111  | _        |          | _        | -         | -        |          | -        |              | $\square$      |  |  |
| <u> </u>  | 112  |          |          | $\vdash$ | Н         |          | $\vdash$ | H        | -            | Н              |  |  |
|           | 113<br>114<br>115  | H        |          |          | -         | -        | -        | -        | H            | Н              |  |  |
|           | 115  |          | _        |          | $\vdash$  | $\vdash$ | H        | $\vdash$ | $\vdash$     | Н              |  |  |
| <b></b> - | 116  |          |          | $\vdash$ |           |          | $\vdash$ |          | <del> </del> | Н              |  |  |
|           | 116<br>117<br>118  | Н        |          |          |           |          | $\vdash$ |          | -            | Н              |  |  |
|           | 118  |          | _        | _        |           | _        | $\vdash$ |          | Н            | П              |  |  |
|           | 119<br>120   |          |          | Т        |           |          |          |          | $\vdash$     | П              |  |  |
|           | 120  | -        |          |          |           |          | $\Box$   |          |              |                |  |  |
|           | 121  |          |          |          |           |          |          |          |              | П              |  |  |
|           | 122  |          |          |          |           |          |          |          |              | П              |  |  |
|           | 121<br>122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130 |          |          |          |           |          |          |          |              |                |  |  |
|           | 124  |          |          |          |           |          |          |          |              |                |  |  |
|           | 125  |          |          |          |           |          |          | Ш        |              |                |  |  |
|           | 126  |          |          |          |           |          | L        | _        | L            | Ш              |  |  |
|           | 127  | oxdot    |          |          |           |          |          | L        |              |                |  |  |
|           | 128  |          | _        | <u> </u> | _         |          | _        |          |              | Ш              |  |  |
| <u> </u>  | 129  | _        | $\perp$  | L        | $\vdash$  | <u> </u> | <u> </u> |          | <u> </u>     | Ш              |  |  |
| <u> </u>  | 130  | -        |          | _        | _         | _        | <u> </u> |          | -            | -              |  |  |
| -         | 131  | $\vdash$ |          | $\vdash$ | -         | -        | -        | _        | <u> </u>     | Н              |  |  |
|           | 132<br>133   |          |          |          | -         | ⊢        | <u> </u> |          |              | Н              |  |  |
|           | 134  | $\vdash$ |          | -        |           | $\vdash$ | ⊢        | -        |              | Н              |  |  |
|           | 135  | -        |          |          |           | $\vdash$ | $\vdash$ |          | ┢            | Н              |  |  |
|           | 135<br>136   | _        |          | $\vdash$ | Н         | $\vdash$ | $\vdash$ | _        | -            | H              |  |  |
|           | 137<br>138   |          |          |          | П         |          | Н        |          | _            |                |  |  |
|           | 138  |          |          |          |           |          |          |          |              | П              |  |  |
|           | 139  |          |          |          |           |          | Г        |          |              | П              |  |  |
|           | 140  |          |          |          |           |          |          |          |              |                |  |  |
|           | 141  |          |          |          |           |          |          |          |              |                |  |  |
|           | 142  |          |          |          |           |          |          |          |              |                |  |  |
|           | 143  |          |          |          |           | L.       |          |          |              | Ш              |  |  |
| L         | 144  | L_       | $\sqcup$ | oxdot    | Ш         | <u> </u> | _        | L        | <u>_</u>     | Ш              |  |  |
| <u> </u>  | 145  | _        |          | $\vdash$ | Ш         | <u> </u> |          | L        | <u> </u>     | Щ              |  |  |
| <u> </u>  | 146  | $\vdash$ | -        |          | <b></b> . | <u> </u> | ļ        | ļ        | $\vdash$     | Ш              |  |  |
|           | 147  |          | <u> </u> | $\vdash$ | <u> </u>  | <u> </u> | <u> </u> | <u> </u> | <del> </del> | $\vdash\vdash$ |  |  |
|           | 148  | $\vdash$ | <u> </u> | <u> </u> | $\vdash$  | <u> </u> | $\vdash$ | <u> </u> | H            |                |  |  |
| <u> </u>  | 149  | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$  |          |          | <u> </u> | -            | $\vdash$       |  |  |
|           | 150  |          |          |          |           | Щ        |          | l        | L            | L1             |  |  |